

Notice of Allowability

Application No.

10/772,612

Examiner

Kevin Quarterman

Applicant(s)

RAGLE, LARRY

Art Unit

2879

m

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12 October 2004.
2. ☒ The allowed claim(s) is/are 1-28.
3. ☒ The drawings filed on 05 February 2004 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DETAILED ACTION

Terminal Disclaimer

1. The terminal disclaimer filed on 12 October 2004 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of US 6,737,801 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Allowable Subject Matter

2. Claims 1-28 are allowed.

3. The following is an examiner's statement of reasons for allowance: Applicant has filed a terminal disclaimer overcoming the judicially created doctrine of obviousness-type double patenting rejection.

4. Thus, regarding independent claim 1, the prior art of record neither shows or suggests a multicolor display comprising, in addition to other limitations of the claim, at least one wavelength conversion layer applied to at least one of two light-emitting regions and an opaque material interposed between the at least two light-emitting regions.

5. Regarding independent claim 2, the prior art of record neither shows or suggests a multicolor display comprising, in addition to other limitations of the claim, a first wavelength conversion layer applied to a light-emitting surface of a first of at least two LEDs and an opaque material interposed between the at least two LEDs. Due to their dependency upon independent claim 2, claims 3-5 are also allowable.

6. Regarding independent claim 6, the prior art of record neither shows or suggests a multicolor display comprising, in addition to other limitations of the claim, a wavelength conversion layer deposited on a light-emitting surface of a first of at least two LEDs and an opaque material interposed between the at least two LEDs. Due to their dependency upon independent claim 6, claims 7-14 are also allowable.

7. Regarding independent claim 15, the prior art of record neither shows or suggests a multicolor display comprising, in addition to other limitations of the claim, a first wavelength conversion layer that is deposited on a light-emitting surface of a first of three LEDs; a second wavelength conversion layer deposited on a light-emitting surface of a second of the three LEDs; and an opaque material interposed between the three LEDs. Due to their dependency upon independent claim 15, claims 16-28 are also allowable.

8. The subject wavelength conversion layers along with the opaque material are provided for improving the contrast of the multicolor display. The design is new and unique to the art.

9. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Quarterman whose telephone number is (571) 272-2461. The examiner can normally be reached on M-TH (7-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kevin Quarterman
Examiner
Art Unit 2879

kq 
22 December 2004


Joseph Williams
Primary Examiner
Art Unit 2879